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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/476,761 01/03/00 MILLER

R 19223-000100

EXAMINER

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TM02/0627

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ART UNIT	PAPER NUMBER

2674
DATE MAILED: 06/27/01

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

K-1A

Office Action Summary

Application No.

09/476,761

Applicant(s)

Miller et al

Examiner

Mackly Monestime

Group Art Unit

2674

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 1/3/00
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-23 ~~is~~ are pending in the application.
Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-10, 12-19 and 21-23 ~~is~~ are rejected.
- ☒ Claim(s) 11 and 20 ~~is~~ are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☒ Notice of Reference(s) Cited, PTO-892
- ☒ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

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DETAILED ACTION

1. Claims 1-23 are presented for examination.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The current title is imprecise.

3. Applicant is requested to update the related application information in the specification.

Update with serial number or patent number (page 11, line 17) and delete (Attorney Docket No. 19223-000700US).

Claim Rejections - 35 U.S.C. § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 12 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cloutier et al US Patent No. 5,847,771).

6. As per claims 1, 12 and 21, Cloutier et al. disclosed the invention as claimed, including a media processing system (Fig. 3, Item No. 76) comprising: DRAM (col. 13, lines 61-63) having plurality of storage locations for storing digital data being processed by said media processing

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system (Fig. 3, Items No.80a-80b; col. 13, lines 61-63) , said digital data including video data that is compressed in a standardized format; means for processing said digital data that includes said standardized format compressed video data to produce compressed video images and image data (col. 14, lines 66-67); means for decoding said standardized format compressed video images to generate full motion video pixel data; means for sharing DRAM between processing means and said decoding means (col. 2, lines 49-63; col. 3, lines 9-15; col. 13, lines 45-54).

Cloutier et al. did not specifically disclose means for producing a full motion video signal from said full motion video pixel data. However, Cloutier et al. did disclose the use of MPEG in his system. As well known to those of ordinary skill in this technology, MPEG processing provides compression coding of up to 30 frames per second of full motion video signals along with a corresponding high quality sound signal, therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have utilized the MPEG taught by Cloutier et al. to provide a full motion video signal from a full motion video pixel data.

7. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cloutier et al. in view of Lucas et al. (US Patent No. 5,081,450)

8. As per claim 2, Cloutier et al. failed to disclose: standardized compressed format comprises a luminance sampled generated for each pixel and two chrominance samples generated for every four pixels. However, Lucas et al. disclosed standardized compressed format comprises a luminance sampled generated for each pixel and two chrominance samples generated for every four pixels (col. 6, lines 40 and 50-58). It would have been obvious to one of ordinary skill in the

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art at the time the invention was made to combine the teachings of Lucas et al. with the teachings of Cloutier et al. because doing so would provide a lower transmission bandwidth and a lower data storage requirement.

9. As per claim 3, Cloutier et al. disclosed: said decoded means comprises a Motion Picture Expert Group decoder (col. 2, lines 22-23).

10. Claims 4-7, 13-16 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cloutier et al. in view of Keene et al. (US Patent No. 5,510,843)

11. As per claims 4-7, 13-16 and 22-23; Cloutier et al. failed to disclose: wherein said compressed video data comprises a plurality of pixels and said processing means comprises means for combining a first pixel with a second pixel in a single clock cycle. However, Keene et al. disclosed the steps of combining a first pixel with a second pixel (col. 4, lines 54-59); but Keene did not specifically disclose that the combination has been performed in a single clock cycle. As well known in the computer art the clock of a computer is one of the prime determinants of its overall processing speed. Moreover, in computer graphics, the display cycle time is the minimum time interval between the starts of successive display cycles. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Keene et al. with the teachings of Cloutier et al. because doing so would enhance the overall processing speed of the system by combining a first and a second pixel in one clock cycle.

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12. Claims 8-10 and 17-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Cloutier et al. in view of Ohki (US Patent No. 5,838,985).

13. As per claims 8-9 and 17-18, Cloutier et al. failed to disclose a plurality of processing elements connected together in parallel, means for controlling said processing elements with instruction words that have a predetermined number of instructions, and means for distributing data simultaneously to each of said processing elements. However, Ohki disclosed a plurality of processing elements connected together in parallel (col. 3, line 9), means for controlling said processing elements with instruction words that have a predetermined number of instructions, and means for distributing data simultaneously to each of said processing elements (col. 3, line 9-21). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have included the processing elements as taught by Ohki into the system of Cloutier et al. because doing so would enhance the throughput by allowing each of the plurality of the processing elements to perform concurrently multiple instructions; and thereby improve the performance of the operation speed of the multimedia processor.

14. As per claims 10 and 19, Cloutier et al. disclosed: wherein said DRAM stores audio data that is compressed in a standardized format (col. 11, lines 47-54; col. 13, lines 62-63), and further comprising means for decompressing said audio data that is compressed to generate uncompressed audio data and means for combining said full motion video data and said uncompressed audio data to generate full motion multimedia (col. 13, lines 45-54; col. 14, lines 66-67).

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15. Claims 11 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Cloutier et al. in view of Ohki as applied to claims 1-10 and 12-18 above, and further in view of Tam et al. (US Patent No. 5,754,186).

16. As per claims 11 and 18, the combination failed to disclose means for combining said storage locations to form a storage location that stores data that is larger than the predetermined physical sized of each storage location of the processing unit. However, Tam et al. means for combining said storage locations to form a storage location that stores data that is larger than the predetermined physical sized of each storage location (col. 3, lines 25-36). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Tam et al. with the teachings of Cloutier et al. and Ohki because doing so would expand compressed pixel data stored in a storage location to a full width pixel data signal.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mackly Monestime whose telephone number is (703) 305-3855. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached on (703) 305-9798. The fax phone number for this Group is (703) 872-9314.

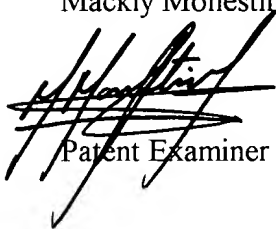
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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Mackly Monestime



Patent Examiner

June 6, 2001



MARK ZIMMERMAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600